



STIC Search Report

EIC 2800

STIC Database Tracking Number: 153335

**TO: Zandra Smith
Location: JEF-6A19
Art Unit : 2877
Friday, May 13, 2005**

Case Serial Number: 09/368459

**From: Darcy Bates
Location: EIC 2800
JEF- 4B68
Phone: 571-272-2540**

darcy.bates@uspto.gov

Search Notes

Re: 09/368,459 US 5,654,609

Attached are search results.

**No U. S. litigation was found in searches of
Lexis-Nexis and Questel-Orbit databases.**

**If more searching or explanation is needed, please let
me know.**

**Thanks,
Darcy Bates**

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Patent Search - Number: 5,654,609



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Patent Search - Number: 5,485,057

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Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents](#) Terms: **patno=5654609** ([Edit Search](#))

496623 (08) 5654609 August 5, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

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[Link to Claims Section](#)

August 5, 1997

Gas discharge lamp and power distribution system therefor

EXPIRATION: August 5, 2001 - Aug. 5, 2001 due to failure to pay maintenance fees
March 14, 2002 - REINSTATED due to acceptance of delayed payment of maintenance fee
(O.G. April 16, 2002)

REISSUE: Reissue Application filed Aug. 4, 1999 (O.G. Sep. 21, 1999) Ex. Gp.: 2821; Re.
S.N. 09/368,459, (O.G. September 21, 1999)

INVENTOR: Smallwood, Robert Charles - Leesburg, Virginia, United States (US); Zarich,
Michael Paul - Longmont, Colorado, United States (US)

APPL-NO: 496623 (08)**FILED-DATE:** June 29, 1995**GRANTED-DATE:** August 5, 1997**ASSIGNEE-AT-ISSUE:** Logic Laboratories, Inc., Leesburg, Virginia, United States (US), 02

ASSIGNEE-AFTER-ISSUE: May 7, 1996 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., SMALLWOOD, ROBERT C. RT. 2, BOX 81 LEESBURG VIRGINIA 22075, Reel and Frame Number: 07919/0836

May 8, 1996 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., LOGIC LABORATORIES, INC. 751 MILLER DRIVE, S.E., SUITE F LEESBURG VIRGINIA 22075, Reel and Frame Number: 07927/0139

August 27, 1996 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., LOGIC LABORATORIES, INC. SUITE E-3 751 MILLER DRIVE, S.E. LEESBURG VIRGINIA 22075, Reel and Frame Number: 08104/0123

December 27, 1996 - SECURITY INTEREST (SEE DOCUMENT FOR DETAILS)., SMALLWOOD, CONSTANCE ELAINE 40081 THOMAS MILL ROAD LEESBURG VIRGINIA 20175, Reel and Frame Number: 08251/0496

December 31, 1996 - SECURITY AGREEMENT, SMALLWOOD, ROBERT C. 40081 THOMAS MILL ROAD LEESBURG VIRGINIA 20175, Reel and Frame Number: 08251/0506

December 10, 1998 - RELEASE, LOGIC LABORATORIES, INC. 751 MILLER DRIVE, S.E., SUITE E-3 LEESBURG VIRGINIA 22075, Reel and Frame Number: 09638/0911

January 25, 1999 - SECURITY AGREEMENT, ARDINGER, JR., HORACE T. 9040 GOVERNOR'S


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patno=5654609

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Syntax Definition

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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Query/Command : file pluspat

Selected file: PLUSPAT

Search statement 1

Query/Command : us5654609/pn

** SS 1: Results 1

Search statement 2

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image
PN - US5654609 A 19970805 [US5654609]
TI - (A) Gas discharge lamp and power distribution system therefor
PA - (A) LOGIC LAB INC (US)
PAO - Logic Laboratories, Inc., Leesburg VA [US]
IN - (A) SMALLWOOD ROBERT CHARLES (US); ZARICH MICHAEL PAUL (US)
AP - US49662395 19950629 [1995US-0496623]
FD - Cont. of US116150 19930902 [1993US-0116150]
Continuation of: US5485057
PR - US49662395 19950629 [1995US-0496623]
US11615093 19930902 [1993US-0116150]
IC - (A) H01J-007/44
EC - H01J-061/56
H05B-041/24P
H05B-041/282
PCL - ORIGINAL (O) : 315056000; CROSS-REFERENCE (X) : 315050000
315057000 315058000 362217000 362221000 362224000 362260000
DT - Basic
CT - US4293799; US5208511; US5294865; US5485057
STG - (A) United States patent
AB - Fluorescent type lamps are arranged to have high frequency power derived from standard, commercial A.C. sources either directly or from power levels distributed from a master ballast. When the master ballast is employed, it functions as an interface between the primary power source and a distribution network to one or more modules so as to relieve the modules of operations such as initial power form conversions, filtering and power factor correcting which require large components. The module or modules driven by the master ballast output are contained within the lamp envelope or attached as an extension of the lamp envelope. The module is formed of elements mounted as a miniaturized unit configured to fit within the lamp envelope or to attach to the end of the envelope. The module includes oscillator components mounted on an elongated board so as to form an assembly with a cross-section compatible with the perimeter of the envelope itself. The module can operate independent of a master ballast unit by including power handling circuitry within the module.

1 / 1 LGST - ©EPO
PN - US5654609 A 19970805 [US5654609]
AP - US49662395 19950629 [1995US-0496623]
ACT - 19960507 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: SMALLWOOD, ROBERT C. RT. 2, BOX 81 LEESBURG, VIRGI;
EFFECTIVE DATE: 19960503

19960507 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: LOGIC LABORATORIES, INC.; EFFECTIVE DATE: 19960503

19960508 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: LOGIC LABORATORIES, INC. 751 MILLER DRIVE, S.E., S;
EFFECTIVE DATE: 19960125

19960508 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: AMERICAN COMPACT LIGHTING, L.L.C.; EFFECTIVE DATE: 19960125

19960827 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: LOGIC LABORATORIES, INC. SUITE E-3 751 MILLER DRIV;
EFFECTIVE DATE: 19960826

19960827 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SMALLWOOD, ROBERT C.; EFFECTIVE DATE: 19960826

19961227 US/AS06-A
SECURITY INTEREST
OWNER: SMALLWOOD, CONSTANCE ELAINE 40081 THOMAS MILL ROAD;
EFFECTIVE DATE: 19961227

19961227 US/AS06-A
SECURITY INTEREST
OWNER: LOGIC LABORATORIES, INC. T/A LOGIC LABS; EFFECTIVE DATE:
19961227

19961231 US/AS26-A
SECURITY AGREEMENT
OWNER: SMALLWOOD, ROBERT C. 40081 THOMAS MILL ROAD LEESBU;
EFFECTIVE DATE: 19961227

19961231 US/AS26-A
SECURITY AGREEMENT
OWNER: LOGIC LABORATORIES, INC., T/A LOGIC LABS; EFFECTIVE DATE:
19961227

19981210 US/AS35-A
RELEASE
LOGIC LABORATORIES, INC. 751 MILLER DRIVE, S.E., SUITE E-3
LEESBURG, VIRGINIA 22 * SMALLWOOD, CONSTANCE ELAINE : 19981113

19990125 US/AS26-A
SECURITY AGREEMENT
OWNER: ARDINGER, JR., HORACE T. 9040 GOVERNOR'S ROW DALLA;
EFFECTIVE DATE: 19981113

19990125 US/AS26-A
SECURITY AGREEMENT
OWNER: LOGIC LABORATORIES, INC.; EFFECTIVE DATE: 19981113

19990921 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990804

5/13/05

US 5,654,609

09/368459

20011009 US/FP-A [-]
EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE
EFFECTIVE DATE: 20010805

20020416 US/PRDP-A [+]
PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE
EFFECTIVE DATE: 20020311

UP - 2003-22

1 / 1 CRXX - ©CLAIMS/RRX
AN - 2869230
PN - 5,654,609 A 19970805 [US5654609]
PA - Logic Labs Inc
PT - E (Electrical)
ACT - 19981210 REASSIGNED
RELEASE

Assignor: SMALLWOOD, CONSTANCE ELAINE DATE SIGNED: 11/13/1998

Assignee: LOGIC LABORATORIES, INC. 751 MILLER DRIVE, S.E., SUITE
E-3 LEESBURG, VIRGINIA 22075

Reel 009638/Frame 0911

Contact: SOFER & HAROUN, LLP ROBERT M. HAROUN 342 MADISON AVENUE,
SUITE 1921 NEW YORK, NEW YORK 10173

19990125 REASSIGNED
SECURITY AGREEMENT

Assignor: LOGIC LABORATORIES, INC. DATE SIGNED: 11/13/1998

Assignee: ARDINGER, JR., HORACE T. 9040 GOVERNOR'S ROW DALLAS,
TEXAS 75356

Reel 009711/Frame 0072

Contact: GARDERE & WYNNE, LLP PHILIP G. MEYERS 3000 THANKSGIVING
TOWER 1601 ELM STREET DALLAS, TX 75201

19990804 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19990921
REISSUE REQUEST NUMBER: 09/368459
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2821

Reissue Patent Number:

20011009 EXPIRED (20010805)

20020416 REINSTATED (20020314)

UP - 1999-27
UACT- 2002-04-16
URAS- 1999-07-13

Search statement 2

Query/Command : fam us5654609/pn

1 Patent Groups
** SS 2: Results 8

Search statement 3

Query/Command : famstate nonstop

1 / 8 PLUSPAT - @QUESTEL-ORBIT
PN - AT214517 T 20020315 [ATE214517]
STG - (T) EP Patent valid in AT
OTI - (T) GASENTLADUNGSLAMPE UND DAFÜR GEEIGNETES
ENERGIEVERTEILUNGSSYSTEM
PA - (T) AMERICAN COMPACT LIGHTING LLC (US)
IN - (T) SMALLWOOD ROBERT C (US); ZARICH MICHAEL P (US)
IC - (T) H01J-007/44 H01J-013/46 H01J-017/34 H01J-019/78 H01J-023/16 H01J-
029/96
AP - AT94928556T 19940902 [1994AT-0928556]
PR - US11615093 19930902 [1993US-0116150]
WOUS9409955 19940902 [1994WO-US09955]
UP - 2002-12

1 / 1 LEGALI - @EPO
PN - AT214517 T 20020315 [ATE214517]
AP - AT94928556T 19940902 [1994AT-0928556]
ACTE- 20020915 AT/RER-T [-]
CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES
UP - 2003-22

2 / 8 PLUSPAT - @QUESTEL-ORBIT
PN - AU7794794 A 19950322 [AU9477947]
STG - (A) Open to public inspection
TI - (A) Gas discharge lamp and power distribution system therefor
PA - (A) AMERICAN CONCEPT LIGHTING LLC
IN - (A) SMALLWOOD ROBERT C; ZARICH MICHAEL P
IC - (A) H01J-007/44 H01J-013/46 H01J-017/34 H01J-019/78 H01J-023/16 H01J-
029/96
AP - AU7794794 19940902 [1994AU-0077947]
PR - WOUS9409955 19940902 [1994WO-US09955]
US11615093 19930902 [1993US-0116150]

3 / 8 PLUSPAT - @QUESTEL-ORBIT
PN - CA2169752 A1 19950309 [CA2169752]
STG - (A1) Application laid open
TI - (A1) GAS DISCHARGE LAMP AND POWDER DISTRIBUTION SYSTEM THEREFOR
OTI - (A1) LAMPE A DECHARGE ET SYSTEME D'ALIMENTATION ELECTRIQUE CONNEXE
PA - (A1) AMERICAN COMPACT LIGHTING LLC (US)
IN - (A1) SMALLWOOD ROBERT C (US); ZARICH MICHAEL P (US)
IC - (A1) H01J-061/56 H05B-041/14
LA - ENGLISH (ENG)
AP - CA2169752 19940902 [1994CA-2169752]
PR - US11615093 19930902 [1993US-0116150]

1 / 1 LEGALI - @EPO
PN - CA2169752 A1 19950309 [CA2169752]
AP - CA2169752 19940902 [1994CA-2169752]
ACTE- 20030403 CA/AFNE-A [+] NATIONAL PHASE ENTRY
EFFECTIVE DATE: 19960216

20030403 CA/EEER-A [+] EXAMINATION REQUEST
EFFECTIVE DATE: 20010626

20031119 CA/AFNE-A [+] NATIONAL PHASE ENTRY
EFFECTIVE DATE: 19960216

20031119 CA/EEER-A [+] EXAMINATION REQUEST
EFFECTIVE DATE: 20010626

20031119 CA/FZDE-A [-] DEAD
EFFECTIVE DATE: 20030902

UP - 2004-39

4 / 8 PLUSPAT - @QUESTEL-ORBIT
PN - DE69430142 D1 20020418 [DE69430142]
STG - (D1) Granted EP number in bulletin
OTI - (D1) GASENTLADUNGSLAMPE UND DAFÜR GEEIGNETES ENERGIEVERTEILUNGSSYSTEM
PA - (D1) AMERICAN COMPACT LIGHTING LLC (US)
IN - (D1) SMALLWOOD C (US); ZARICH P (US)
IC - (D1) H01J-007/44 H01J-013/46 H01J-017/34 H01J-019/78 H01J-023/16 H01J-029/96
AP - DE69430142 19940902 [1994DE-6030142]
PR - US11615093 19930902 [1993US-0116150]
WOUS9409955 19940902 [1994WO-US09955]
UP - 2002-16

1 / 1 LEGALI - @EPO
PN - DE69430142 D1 20020418 [DE69430142]
AP - DE69430142 19940902 [1994DE-6030142]
ACTE- 20021107 DE/8332-A [-] NO LEGAL EFFECT FOR DE

UP - 2003-22

5 / 8 PLUSPAT - @QUESTEL-ORBIT

PN - EP0746867 A1 19961211 [EP-746867]

STG - (A1) Public. Of applic. With search report

TI - (A1) GAS DISCHARGE LAMP AND POWER DISTRIBUTION SYSTEM THEREFOR

OTI - (A1) GASENTLADUNGSLAMPE UND DAFÜR GEEIGNETES

ENERGIEVERTEILUNGSSYSTEM

(A1) LAMPE A DECHARGE ET SYSTEME DE DISTRIBUTION DE PUISSANCE
ASSOCIE

PA - (A1) AMERICAN COMPACT LIGHTING LLC (US)

IN - (A1) SMALLWOOD ROBERT C (US); ZARICH MICHAEL P (US)

IC - (A1) H01J-007/44 H01J-013/46 H01J-017/34 H01J-019/78 H01J-023/16 H01J-029/96

PN2 - EP0746867 A4 19980128 [EP-746867]

STG2 - (A4) Publ. Of suppl. search report

TI2 - (A4) GAS DISCHARGE LAMP AND POWER DISTRIBUTION SYSTEM THEREFOR

OTI2 - (A4) GASENTLADUNGSLAMPE UND DAFÜR GEEIGNETES

ENERGIEVERTEILUNGSSYSTEM

(A4) LAMPE A DECHARGE ET SYSTEME DE DISTRIBUTION DE PUISSANCE
ASSOCIE

PA2 - (A4) AMERICAN COMPACT LIGHTING LLC (US)

IN2 - (A4) SMALLWOOD ROBERT C (US); ZARICH MICHAEL P (US)

IC2 - (A4) H01J-007/44 H01J-013/46 H01J-017/34 H01J-019/78 H01J-023/16 H01J-029/96

PN3 - EP0746867 B1 20020313 [EP-746867]

STG3 - (B1) Patent

TI3 - (B1) GAS DISCHARGE LAMP AND POWER DISTRIBUTION SYSTEM THEREFOR

OTI3 - (B1) GASENTLADUNGSLAMPE UND DAFÜR GEEIGNETES

ENERGIEVERTEILUNGSSYSTEM

(B1) LAMPE A DECHARGE ET SYSTEME DE DISTRIBUTION DE PUISSANCE
ASSOCIE

PA3 - (B1) AMERICAN COMPACT LIGHTING LLC (US)

IN3 - (B1) SMALLWOOD ROBERT C (US); ZARICH MICHAEL P (US)

IC3 - (B1) H01J-007/44 H01J-013/46 H01J-017/34 H01J-019/78 H01J-023/16 H01J-029/96

LA - ENGLISH (ENG)

AP - EP94928556 19940902 [1994EP-0928556]

PR - WO9409955 19940902 [1994WO-US09955]

US11615093 19930902 [1993US-0116150]

DS - AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

1 / 1 LEGALI - @EPO

PN - EP0746867 A1 19961211 [EP-746867]EP0746867 A4 19980128
[EP-746867]EP0746867 B1 20020313 [EP-746867]

AP - EP94928556 19940902 [1994EP-0928556]

ACTE- 19961211 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

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19961211 EP/17P-A [+]

REQUEST FOR EXAMINATION FILED

EFFECTIVE DATE: 19960321

19980128 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

19980128 EP/A4-A [+]

SUPPLEMENTARY SEARCH REPORT
EFFECTIVE DATE: 19971211

19981125 EP/17Q-A [+]
FIRST EXAMINATION REPORT
EFFECTIVE DATE: 19981008

20020101 EP/REG-A; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
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DESIGNATED CONTRACTING STATES:
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

20020313 EP/REF-A
CORRESPONDS TO:
(AT 214517T 20020315 [ATE214517])

20020315 EP/REG-A; CH/EP [+]
CH: ENTRY IN THE NATIONAL PHASE
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20020418 EP/REF-A
CORRESPONDS TO:
(DE 69430142 20020418 [DE69430142])

20020801 EP/NLV1-A [-]
NL: LAPSED OR ANNULED DUE TO FAILURE TO FULFILL THE REQUIREMENTS
OF ART. 29P AND 29M OF THE PATENTS ACT; NO LEGAL EFFECT FROM THE
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CH: PATENT CEASED
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20021227 EP/EN-A [-]
FR: TRANSLATION NOT FILED

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20030305 EP/26N-A [+]
NO OPPOSITION FILED
EFFECTIVE DATE: 20021216

20030423 EP/GBPC-A [-]
GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
EFFECTIVE DATE: 20020902

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UP - 2004-39

6 / 8 PLUSPAT - @QUESTEL-ORBIT - image

PN - US5485057 A 19960116 [US5485057]

STG - (A) United States patent

TI - (A) Gas discharge lamp and power distribution system therefor

IN - (A) SMALLWOOD ROBERT C (US); ZARICH MICHAEL P (US)

IC - (A) H01J-007/44

AP - US11615093 19930902 [1993US-0116150]

PR - US11615093 19930902 [1993US-0116150]

EC - H01J-061/56

H05B-041/02

H05B-041/24P

H05B-041/282

PCL - ORIGINAL (O) : 315058000; CROSS-REFERENCE (X) : 315050000

315056000 315057000 315105000 362217000 362221000 362224000

362260000

DT - Corresponding document

1 / 1 LEGALI - ©EPO
PN - US5485057 A 19960116 [US5485057]
AP - US11615093 19930902 [1993US-0116150]
ACTE- 19950221 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: AMERICAN COMPACT LIGHTING LLC ROUTE 2, BOX 81 LEES;
EFFECTIVE DATE: 19950201

19950221 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: ZARICH, MICHAEL P.; EFFECTIVE DATE: 19950201

19960507 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SMALLWOOD, ROBERT C. RT. 2, BOX 81 LEESBURG, VIRGI;
EFFECTIVE DATE: 19960503

19960507 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: LOGIC LABORATORIES, INC.; EFFECTIVE DATE: 19960503

19960508 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: LOGIC LABORATORIES, INC. 751 MILLER DRIVE, S.E., S;
EFFECTIVE DATE: 19960125

19960508 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: AMERICAN COMPACT LIGHTING, L.L.C.; EFFECTIVE DATE: 19960125

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ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: LOGIC LABORATORIES, INC. SUITE E-3 751 MILLER DRIV;
EFFECTIVE DATE: 19960826

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OWNER: SMALLWOOD, ROBERT C.; EFFECTIVE DATE: 19960826

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19961227 US/AS06-A
SECURITY INTEREST
OWNER: LOGIC LABORATORIES, INC. T/A LOGIC LABS; EFFECTIVE DATE:
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19961231 US/AS26-A
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19981210 US/AS35-A
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OWNER: LOGIC LABORATORIES, INC.; EFFECTIVE DATE: 19981113
UP - 2003-22

7 / 8 PLUSPAT - @QUESTEL-ORBIT - image
PN - US5654609 A 19970805 [US5654609]
STG - (A) United States patent
TI - (A) Gas discharge lamp and power distribution system therefor
PA - (A) LOGIC LAB INC (US)
PAO - Logic Laboratories, Inc., Leesburg VA [US]
IN - (A) SMALLWOOD ROBERT CHARLES (US); ZARICH MICHAEL PAUL (US)
IC - (A) H01J-007/44
AP - US49662395 19950629 [1995US-0496623]
PR - US49662395 19950629 [1995US-0496623]
US11615093 19930902 [1993US-0116150]
EC - H01J-061/56
H05B-041/24P
H05B-041/282
PCL - ORIGINAL (O) : 315056000; CROSS-REFERENCE (X) : 315050000
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DT - Basic

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AP - US49662395 19950629 [1995US-0496623]
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EFFECTIVE DATE: 19990804

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EFFECTIVE DATE: 20010805

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EFFECTIVE DATE: 20020311

UP - 2003-22

8 / 8 PLUSPAT - @QUESTEL-ORBIT - image
PN - WO9506951 A1 19950309 [WO9506951]
STG - (A1) Publ. Of int. Appl. With int. Search rep
TI - (A1) GAS DISCHARGE LAMP AND POWER DISTRIBUTION SYSTEM THEREFOR
OTI - (A1) LAMPE A DECHARGE ET SYSTEME DE DISTRIBUTION DE PUISSANCE
ASSOCIE
PA - (A1) AMERICAN CONCEPT LIGHTING LLC (US); SMALLWOOD ROBERT C
(US); ZARICH MICHAEL P (US)
PAO - AMERICAN CONCEPT LIGHTING LLC; Route 2 Box 81 Leesburg, VA 22075
(US) (except US)
SMALLWOOD, Robert, C.; Route 2 Box 81 Leesburg, VA 22075 (US)
(only US)
ZARICH, Michael, P.; 1614 Judson Drive Longmont, CO 80501 (US)

(only US)
IN - (A1) SMALLWOOD ROBERT C (US); ZARICH MICHAEL P (US)
IC - (A1) H01J-007/44 H01J-013/46 H01J-017/34 H01J-019/78 H01J-023/16 H01J-029/96
LA - ENGLISH (ENG)
AP - WO/US9409955 19940902 [1994WO-US09955]
PR - US11615093 19930902 [1993US-0116150]
EC - H01J-061/56
H05B-041/02
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DT - Basic

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AP - WO/US9409955 19940902 [1994WO-US09955]

ACTE- 19950309 WO/AK [+]

DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

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19950614 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION

19950713 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

19960216 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:
CA 2169752A [1994CA-2169752]

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or	or
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not w/N	not within N words
pre /N	precedes by N words
w/p	in same paragraph
not w/p	not in same paragraph
w/seg	in same segment
not w/seg	not in same segment
w/s	in same sentence
not w/s	not in same sentence
and not	and not

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- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

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☒ No Date Restrictions ☐ From To [Date Formats...](#)
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pre /N	precedes by N words
w/p	in same paragraph
not w/p	not in same paragraph
w/seg	in same segment
not w/seg	not in same segment
w/s	in same sentence
not w/s	not in same sentence
and not	and not

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Terms: **5654609 or 5,654,609** ([Edit Search](#))

Richmond Times Dispatch (Virginia) September 1, 1997, Monday,

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September 1, 1997, Monday, NONE EDITION

SECTION: NONE, Pg. 16

LENGTH: 1860 words

HEADLINE: GROOVY IDEA;
ORTHOPEDIC SURGEON DESIGNS DEVICE THAT INDENTS BONE TO HOLD CEMENT FOR;
PROSTHESIS

BYLINE: Compiled by States News Service

BODY:

Dr. Howard G. Stern, a Richmond orthopedic surgeon, has patented a device that could help lengthen the life of hip and knee replacements.

Stern's patent, issued this summer, is for an intramedullary bone groover.

"It puts grooves on the bone surface for the purpose of cementing the prosthesis to the bone," Stern said. He believes the grooves would help the cement bond better, which would make the replacement hold in place for a longer period of time.

However, the grooving device has never actually been tried. Stern made a computer model for the patent application.

"The idea is sound," he said. "But it has to be financially marketable." He's approaching companies about making the device.

Stern filed for the patent in October of 1995 after doing his own research at Virginia Commonwealth University's library, which is the local outlet for U.S. patent information.

"I went through about 1,000 patents," he said. None were exactly like his grooving device. He wrote the patent application himself, then consulted with a patent agent to make the language conform with patent rules.

Below are other patents issued recently:

RICHMOND

Automatic child restraint for shopping carts, Charles De Stefano, Richmond, patent number 5,651,557, filed on Jan. 22, 1996.

Liquid scrubbing of gas-phase contaminants, Charles T. Bridges, Midlothian, Charles R. Howe, Richmond, John B. Paine, III, Midlothian, Kenneth F. Podraza, Richmond, patent number 5,651,917, filed on Aug. 10, 1995.

Inhibiting the development of tolerance to and/or dependence on an addictive substance, David J. Mayer, Richmond, Donald D. Price, Richmond, Jianren Mao, Richmond, et. al, patent number 5,654,281, filed on April 26, 1995.

Lubricant containing molybdenum compound and secondary diarylamine, Vincent James Gatto, Midlothian, Mark Thomas Devlin, Richmond, patent number 5,650,381, filed on Nov. 20, 1995.

Horizontal ball-return mechanism, Lawrence Gooss, Mechanicsville, William M. Riley, Richmond, patent number 5,649,868, filed on July 17, 1996.

Drain trough mounting apparatus and method of manufacturing same, Donald F. Faye, Richmond, patent number 5,649,681, filed on Sept. 28, 1995.

Electrical lighter with a rotatable tobacco supply, F. Murphy Sprinkel, Glen Allen, Amitabh Das, Midlothian, Grier S. Fleischhauer, Midlothian, Everett C. Grollmund, Midlothian, Willie G. Houck, Jr., Richmond, Peter J. Lipowicz, Midlothian, Ulysses Smith, Midlothian, James M. Washington, Richmond, Susan E. Wrenn, Chesterfield, patent number 5,649,554, filed on Oct. 16, 1995.

Process and apparatus for impregnation and expansion of tobacco, Kwang H. Cho, Midlothian, Thomas J. Clarke, Richmond, Joseph M. Dobbs, Richmond, Eugene B. Fischer, Chester, Diane L. Leister, Richmond, Jose M. G. Nepomuceno, Beaverdam, Walter A. Nichols, Midlothian, Ravi Prasad, Midlothian, patent number 5,649,552, filed on June 7, 1995.

Modular bridge deck system consisting of hollow extruded aluminum elements, Brian J. Malloy, Richmond, Adam D. Matteo, Richmond, Glen A. Taylor, Richmond, Kurt P. Thompson, Richmond, George B. Tyler, Richmond, et. al, patent number 5,651,154, filed on Nov. 13, 1995.

VIRGINIA

Universal-fit, quick-connect power drive/steer attachment for wheelchair, John G. Casali, Blacksburg, patent number 5,651,422, filed on June 7, 1995.

Family of collapsible structures and a method of making a family of collapsible structures, Theodore R. Zeigler, Alexandria, patent number 5,651,228, filed on Feb. 13, 1996.

Tile with solar energy collection capability, John P. Archibald, Annandale, patent number 5,651,226, filed on Feb. 10, 1995.

Safety device, Frederick Matarazzo, Sterling, patent number 5,651,206, filed on April 24, 1996.

Method of forming a temperature duct spacer unit and method of making an inductive winding having a temperature sensing element, Morris Gauldin, Danville, et. al, patent number 5,651,175, filed on June 6, 1995.

Parallel proximity detection for computer simulation, Frederick P. Wieland, Spotsylvania, patent number 5,652,871, filed on April 10, 1995.

Discriminate reduction data processing, Larry S. Chandler, Falls Church, patent number 5,652,713, filed on April 5, 1995.

Dual beam spectrophotometer, George Asimopoulos, Blacksburg, patent number 5,652,654, filed on Aug. 12, 1996.

Hybrid hall effect device and method of operation, Mark B. Johnson, Springfield, patent number 5,652,445, filed on May 6, 1996.

In-situ monitoring and feedback control of metalorganic precursor delivery, William J.

DeSisto, Alexandria, Brian J. Rappoli, Alexandria, patent number 5,652,431, filed on Feb. 23, 1996.

Method of treating defective glucose metabolism using synthetic insulin substances, Joseph Larner, Charlottesville, John Price, Charlottesville, Thomas Picariello, Blacksburg, Laura Huang, Charlottesville, patent number 5,652,221, filed on Nov. 7, 1994.

Ulcer prevention and treatment composition, Richard C. Fuisz, Great Falls, patent number 5,651,987, filed on Aug. 27, 1993.

Method of alleviating gastrointestinal distress by ingesting beta-fructofuranosidase, Edward F. Schuler, Keswick, et. al, patent number 5,651,967, filed on Aug. 21, 1995.

Archery bow tensioning device, David L. Pullin, Staunton, patent number 5,649,524, filed on June 25, 1996.

Non-explosive target directed reentry projectile, W. Carson Lyons, Williamsburg, et. al, patent number 5,649,488, filed on May 19, 1995.

Address display system with direct illumination, Robert P. Martins, Alexandria, patent number 5,649,378, filed on March 3, 1995.

Use of breaker chemicals in gelled hydrocarbons, R.D. Lundberg, Williamsburg, et. al, patent number 5,649,596, filed on Feb. 27, 1996.

Shuttle matrix line printer with print head service diagnostic and method, Richard H. Sarbin, Waynesboro, patent number 5,649,773, filed on Jan. 3, 1996.

Compressive strut for cryogenic applications, Xianrui Huang, Lynchburg, et. al, patent number 5,650,230, filed on Jan. 15, 1993.

Elongated structural member and method and apparatus for making same, Frank A. March, Leesburg, Robert B. Taylor, Winchester, John H. Menge, Winchester, Thomas M. Pontiff, Winchester, et. al, patent number 5,650,224, filed on Oct. 3, 1996.

Anatomically designed wrist support, Samuel C. Kline, Virginia Beach, patent number 5,649,900, filed on Nov. 15, 1994.

Virtual polyhedra models, Frederick Jerome Altman, Arlington, patent number 5,651,679, filed on Sept. 27, 1995.

Method for reducing ceramic tool wear and friction in machining/cutting applications, Michael J. Furey, Blacksburg, patent number 5,651,648, filed on Feb. 22, 1996.

Solid-state blue laser source, Lew Goldberg, Fairfax, Michael L. Dennis, Alexandria, Ishwar Aggarwal, Fairfax Station, patent number 5,651,019, filed on Aug. 28, 1995.

Simultaneous overlapping broadcasting of digital programs, Kamran Sistanizadeh, Arlington, W. Tim Cambell, Alexandria, et. al, patent number 5,651,010, filed on March 16, 1995.

Console dispatch in an extended multisite radio communications network, James S. Kent, Lynchburg, patent number 5,650,995, filed on Sept 9, 1996.

Operation support system for service creation and network provisioning for video dial tone networks, Kathleen Daley, Manassass, patent number 5,650,994, filed on May 16, 1995.

Magnetic disk cartridge comprising a nonwoven fabric liner with indentations formed therein,

Thomas A. Dindinger, Riner, et. al, patent number 5,650,898, filed on June 1, 1995.

Circuit continuity testing device, Steven R. Saurez, Hamilton, et. al, patent number 5,650,727, filed on April 7, 1995.

Transgenic plants producing polyhydroxyalkanoates, Somerville, Douglas E. Dennis, Weyers Cave, patent number 5,650,555, filed on June 7, 1995.

Pressure indicator, Clifford A. Calhoun, Fairfax, Craig Calhoun, Fairfax, patent number 5,653,191, filed on Nov. 29, 1995.

Portable tripod riser, Charles S. Kendall, Alexandria, patent number 5,653,179, filed on Dec. 6, 1995.

Consensus sequence of the human BRCA1 gene, Sheri J. Olson, Arlington, et. al, patent number 5,654,155, filed on Feb. 12, 1996.

Detection of Yersinia using the polymerase chain reaction, Barbara J. Mann, Charlottesville, et. al, patent number 5,654,144, filed on April 24, 1995.

Single-material fully isotropic laminates with multiple sublaminae, Kuang-Ming Wu, McLean, Thomas J. Wu, McLean, patent number 5,654,077, filed on June 13, 1996.

Process and apparatus for making tablets and tablets made therefrom, Richard C. Fuisz, Great Falls, patent number 5,654,003, filed on Feb. 10, 1994.

Method and apparatus for ensuring sterility of surgical drapes used with surgical equipment, Durward Faries Jr., McLean, et. al, patent number 5,653,938, filed on Apr. 26, 1995. Method and apparatus for forming compression dosage units, Beuford Arlie Bogue, Broad Run, Garry L. Myers, Reston, patent number 5,653,926, filed on May 9, 1995.

Apparatus and method for synchronizing nonlinear systems using filtered signals, Thomas L. Carroll, Alexandria, patent number 5,655,022, filed on Sept. 29, 1995.

Valve position controller, John Mayhew, Salem, Dwayne M. Puckett, Roanoke, patent number 5,654,885, filed on March 28, 1995.

Control method for magnetic stereotaxis system, Rogers C. Ritter, Charlottesville, et. al, patent number 5,654,864, filed on July 25, 1994.

Testing jig and method of testing video using testing jig, Arthur A. Richard III, Springfield, patent number 5,654,751, filed on May 31, 1995.

Gas discharge lamp and power distribution system therefor, Robert Charles Smallwood, Leesburg, et. al, patent number **5,654,609**, filed on June 29, 1995.

Magnetic spin injected field effect transistor and method of operation, Mark B. Johnson, Springfield, patent number 5,654,566, filed on May 6, 1996.

Small vacuum compatible hyperthermal atom generator, Ronald A. Outlaw, Newport News, et. al, patent number 5,654,541, filed on Nov. 21, 1994.

Antibodies to human keratinocyte growth factor (KGF) and related pharmaceuticals, Stuart A. Aaronson, Great Falls, patent number 5,654,405, filed on May 31, 1995.

Reinforced polyester compositions and method of making same, William Ronald Darnell, Weber City, patent number 5,654,395, filed on May 3, 1991.

Electromagnetically shielded hearing aid, Louis Thomas Gnecco, Herndon, Paula Sharyn Gnecco, Herndon, patent number 5,640,457, filed on Nov. 13, 1995.


Computer network encryption/decryption device, Richard L. Adams, Jr., Fairfax, et. al, patent number 5,640,456, filed on July 10, 1995.

System and method for access field verification, Steven B. Lipner, Oakton, et. al, patent number patent number 5,640,454, filed on Sept. 12, 1996.

Universal interactive set-top controller for downloading and playback of information and entertainment services, Kenneth Cunningham, Sterling, Joseph Smallcomb, Herndon, et. al, patent number 5,640,453, filed on Aug. 11, 1994.

Quasi four-level Tm:LuAG laser, Mahendra G. Jani, Poquoson, Norman P. Barnes, Yorktown, Waldo J. Rodriguez, Hampton, et. al, patent number 5,640,408, filed on Jan. 29, 1996.

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